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## ENTERED

PCT10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/088,046

DATE: 04/04/2002

TIME: 15:38:34

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\04042002\J088046.raw

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      6 <120> TITLE OF INVENTION: Novel Compounds
     9 <130> FILE REFERENCE: BM45414
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C--> 11 <141> CURRENT FILING DATE: 2002-03-14
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    12 <151> PRIOR FILING DATE: 1999-09-14
    14 <150> PRIOR APPLICATION NUMBER: 9921693.9
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    17 <150> PRIOR APPLICATION NUMBER: 9922829.8
    18 <151> PRIOR FILING DATE: 1999-09-25
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    22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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    26 <212> TYPE: DNA
    27 <213> ORGANISM: Moraxella catarrhalis
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    31 ctaaatgcac atgcagcacc tgaattatat ggttacgcaa atcttgtcgt ttctgctaat
    32 cataaaaaaa caaccaacaa gacaaccaat gtcagtacat caacaacaga ccgcccctat
    33 ctgtatagca gcggatcacg cattggcctt agagggtctg aaaagttaaa tgatgattat
    34 gaggttttgt acaagttgga gtaccgtcta gaaaatgatg gtgatttacg caatgaaaaa
    35 atcaagcage cagatggtae tgaaaagact gttgctaaaa caegcaattt tgaggetegt
    36 gattcatgga ttggcgtgaa gcataaaaag tatggtacca tcaaggcggg tcgtatgttg
    37 tetttggate catatgtgeg ttataetgee tatttggegt caggegtaga tggggtgegt
    38 accaataata ccattgcata cgaatcacca aaaatcaaag atgttagttt tcaggcgatg
    39 tacatcttag atgaaaataa agagacagat accattgatc gtgatggtta ttcattgctt
    40 gtcaagaaaa acacagatac atataatgtt ggtgcagctt atgcctattt tggtaaagca
    41 aaaacctctt atggcaagat taactatact gcgcgtgtga caggtaatta taaaattaat
    42 gaggattata aagtaggtgg tatctatcag catgtcggct atgccaatga cgacagtgcc
    43 aaaaataata cagaacaagc tgttggcgtg gctttgcagc attttaaaga caaatggact
    44 cataccgcac acatgaatct tgtgaataat cctagtggga aaaagggcga tgggtttgag
    45 ctgatcggag caattgaccg tgatatttct aaaaatgtct ctgcaggcat ggatatcacc
    46 tatggtaact ttaactacgc aacagaaaaa gaatcttaca tcaacccaac tatctatgcg
    47 actgtatatt tttaa
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55 Met Lys Ala Gln Phe Thr Thr Leu Lys Val Ile Gly Gly Leu Phe Val

49 <210> SEQ ID NO: 2 50 <211> LENGTH: 344 51 <212> TYPE: PRT

54 <400> SEQUENCE: 2

56 1

52 <213> ORGANISM: Moraxella catarrhalis



DATE: 04/04/2002 RAW SEQUENCE LISTING TIME: 15:38:34 PATENT APPLICATION: US/10/088,046

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\04042002\J088046.raw

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59 Ala Asn Leu Val Val Ser Ala Asn His Lys Lys Thr Thr Asn Lys Thr
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61 Thr Asn Val Ser Thr Ser Thr Thr Asp Arg Pro Tyr Leu Tyr Ser Ser
                           55
63 Gly Ser Arg Ile Gly Leu Arg Gly Ser Glu Lys Leu Asn Asp Asp Tyr
                       70
                                           75
65 Glu Val Leu Tyr Lys Leu Glu Tyr Arg Leu Glu Asn Asp Gly Asp Leu
                                       90
67 Arg Asn Glu Lys Ile Lys Gln Pro Asp Gly Thr Glu Lys Thr Val Ala
                                   105
               100
69 Lys Thr Arg Asn Phe Glu Ala Arg Asp Ser Trp Ile Gly Val Lys His
                               120
71 Lys Lys Tyr Gly Thr Ile Lys Ala Gly Arg Met Leu Ser Leu Asp Pro
                           135
                                               140
73 Tyr Val Arg Tyr Thr Ala Tyr Leu Ala Ser Gly Val Asp Gly Val Arg
                       150
                                           155
75 Thr Asn Asn Thr Ile Ala Tyr Glu Ser Pro Lys Ile Lys Asp Val Ser
                   165
                                       170
77 Phe Gln Ala Met Tyr Ile Leu Asp Glu Asn Lys Glu Thr Asp Thr Ile
                                   185
               180
79 Asp Arg Asp Gly Tyr Ser Leu Leu Val Lys Lys Asn Thr Asp Thr Tyr
                               200
81 Asn Val Gly Ala Ala Tyr Ala Tyr Phe Gly Lys Ala Lys Thr Ser Tyr
                           215
                                               220
83 Gly Lys Ile Asn Tyr Thr Ala Arg Val Thr Gly Asn Tyr Lys Ile Asn
                                           235
                       230
85 Glu Asp Tyr Lys Val Gly Gly Ile Tyr Gln His Val Gly Tyr Ala Asn
                   245
                                       250
87 Asp Asp Ser Ala Lys Asn Asn Thr Glu Gln Ala Val Gly Val Ala Leu
                                   265
              260
                                                        270
89 Gln His Phe Lys Asp Lys Trp Thr His Thr Ala His Met Asn Leu Val
                               280
91 Asn Asn Pro Ser Gly Lys Lys Gly Asp Gly Phe Glu Leu Ile Gly Ala
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                           295
                                               300
93 Ile Asp Arg Asp Ile Ser Lys Asn Val Ser Ala Gly Met Asp Ile Thr
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95 Tyr Gly Asn Phe Asn Tyr Ala Thr Glu Lys Glu Ser Tyr Ile Asn Pro
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97 Thr Ile Tyr Ala Thr Val Tyr Phe
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100 <210> SEQ ID NO: 3
101 <211> LENGTH: 2037
102 <212> TYPE: DNA
103 <213> ORGANISM: Moraxella catarrhalis
105 <400> SEQUENCE: 3
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60



RAW SEQUENCE LISTING PATENT APPLICATION: US/10/088,046

DATE: 04/04/2002 TIME: 15:38:34

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\04042002\J088046.raw

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109 gacatgggtg tcgatatcaa tcaaaccaat atcaaccagc caaattggca agatgacaag
                                                                           240
                                                                           300
110 aatggcgatt catgtttttt ggttgatgag attgactttg tgattgaggg tggagaagat
111 aaacatattc taggtatgac gccgagcaat ttacgcagct tgctatcgcc cctgttggac
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112 cggacaaagc caacatatgc tcttaatcac tgcatcaaca atcacaacct atctttaatt
                                                                           420
113 gtagatattg cccataatga attactaaag cgtggttatt taactagcag tattagcatt
                                                                           480
114 gaagagcagg atttatcaac taaaaaactc actttaacag tccatgctgg caaggtgaaa
                                                                           540
115 aaggtgatat tggccgatgc tagcaaaacg ccaacttatg tcaaagccgc cattcctctt
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116 aagttcaatc aagcctttcg tctgtcatat ttagaacaag gtctagataa tttaaaacgc
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                                                                           720
117 atcqatccaa cqqcaaccqt qcaqattata ccaagcaqct ccaqtaatqt cqccaatqat
118 attgacatta acaccacaaa ccttggtttt agtgatttac tcattaggat ggaccgcagt
                                                                           780
                                                                           840
119 caaaqcgctq tatttqqcat taatattqat aacagtttat ccaaaqatta tggcaattat
                                                                           900
120 ctgatttctg ctaatgttcg tgctaacaac ctcatgcatc ttaacgatga atggaatctt
121 tctgccaact atccattggc gcgcctgatt gacgctgccc aaaatgatct tggggttcag
                                                                           960
122 gtgggcaagg ataggcaggt taattatcac gcttccttga ctattcctta tggattgtat
                                                                          1020
123 aaattttctg ccacacaag ccaccacaa taccagcaat ttcttgaagg gcttcatgcg
                                                                          1080
124 cccttgactt atcatggcac cagcaagaca agctcaattg gattgtctcg tttattgcac
                                                                          1140
125 cgtgatggca atcaaaagac tgaaggttat ataaaggtta atcacaaacg aagcagtaat
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126 tatattgatg atgttaatct tgaagtgcaa aaccgccgca caacaggata taacattggc
                                                                          1260
127 atcactcatc agcatcatct tcaccaaggt ggttatttgt atgccaactt ggattataag
                                                                          1320
128 caaggaacag gggcactaaa agcaaagcct gcacctgaag agcatattta tgatgctttt
                                                                          1380
129 gggcgacaac tacccagtga gggttttgca aaagcaccaa tttggtcact atacaccagt
                                                                          1440
                                                                          1500
130 ttccaaaagc catttgtgtt aaacaaccca aatgatactg aacaagcgca agataaagca
131 acagcaaata aacccattta cacatccatt cctctcactt atactgctag attacaagcc
                                                                          1560
132 caatatgcca aacaacttcc tgtaccatct gatttattct atttgggtgg cagatatagc
                                                                          1620
133 attaaaggca ttaaagaggg aaattattta tcaggagaac atggctttag cctatcccaa
                                                                          1680
                                                                          1740
134 gaacttgett ggcaattgee attacagaat ettaateage aetttagtae aaatgeaaae
135 agcgcccagt tgtatgcaag tattgatcaa ggctatgcct atggaaaaaa cactcttaat
                                                                          1800
136 aatcaacqcc atatcttqqc tqqaqcqqtt gqtatqaqgt attattttca aggcagtcaa
                                                                          1860
137 gatccaagaa ttcaagaaac acaaaatggc ttgactcatt tcaaagaatc aaatacttat
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138 ctaaataaca caccaaccac agctcatttg gatatattca ttggaaaagg aattaagacg
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142 <211> LENGTH: 678
143 <212> TYPE: PRT
144 <213> ORGANISM: Moraxella catarrhalis
146 <400> SEQUENCE: 4
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151 Ala Asn Leu Ser Ala Ile Thr Asp Asp Arg Arg Gln Ala Ala Leu Ala
                                40
153 His Leu Ala Arg Gln Asp Leu Ala Ala Thr Asp Asp Met Gly Val
154
155 Asp Ile Asn Gln Thr Asn Ile Asn Gln Pro Asn Trp Gln Asp Asp Lys
                        70
                                            75
157 Asn Gly Asp Ser Cys Phe Leu Val Asp Glu Ile Asp Phe Val Ile Glu
158
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RAW SEQUENCE LISTING

DATE: 04/04/2002 PATENT APPLICATION: US/10/088,046 TIME: 15:38:34

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\04042002\J088046.raw

| 159<br>160 | Gly            | Gly        | Glu   | Asp<br>100 | Lys   | His | Ile            | Leu  | Gly<br>105 | Met      | Thr      | Pro        | Ser    | Asn<br>110 | Leu  | Arg   |
|------------|----------------|------------|-------|------------|-------|-----|----------------|------|------------|----------|----------|------------|--------|------------|------|-------|
| 161        | Ser            | Leu        |       | Ser        | Pro   | Leu | Leu            |      |            | Thr      | Lys      | Pro        |        |            | Ala  | Leu   |
| 162        |                |            | 115   |            |       |     |                | 120  |            |          |          |            | 125    |            |      |       |
| 163<br>164 | Asn            | His<br>130 | Cys   | Ile        | Asn   | Asn | His<br>135     | Asn  | Leu        | Ser      | Leu      | Ile<br>140 | Val    | Asp        | Ile  | Ala   |
| 165        |                |            | Glu   | Leu        | Leu   |     |                | Gly  | Tyr        | Leu      |          |            | Ser    | Ile        | Ser  |       |
| 166        | 145            |            |       |            |       | 150 |                |      |            |          | 155      |            |        |            |      | 160   |
| 167        | Glu            | Glu        | Gln   | Asp        | Leu   | Ser | Thr            | Lys  | Lys        | Leu      | Thr      | Leu        | Thr    | Val        | His  | Ala   |
| 168        |                |            |       |            | 165   |     |                |      |            | 170      |          |            |        |            | 175  |       |
| 169        | Gly            | Lys        | Val   | Lys        | Lys   | Val | Ile            | Leu  | Ala        | Asp      | Ala      | Ser        | Lys    | ${	t Thr}$ | Pro  | Thr   |
| 170        |                |            |       | 180        |       |     |                |      | 185        |          |          |            |        | 190        |      |       |
| 171        | Tyr            | Val        | Lys   | Ala        | Ala   | Ile | Pro            | Leu  | Lys        | Phe      | Asn      | Gln        | Ala    | Phe        | Arg  | Leu   |
| 172        | _              |            | 195   |            |       |     |                | 200  |            |          |          |            | 205    |            |      |       |
| 173        | Ser            | Tvr        | Leu   | Glu        | Gln   | Gly | Leu            | Asp  | Asn        | Leu      | Lys      | Arg        | Ile    | Asp        | Pro  | Thr   |
| 174        |                | 210        |       |            |       | -   | 215            | -    |            |          | _        | 220        |        | _          |      |       |
|            | Ala            | Thr        | Val   | Gln        | Ile   | Ile | Pro            | Ser  | Ser        | Ser      | Ser      | Asn        | Val    | Ala        | Asn  | Asp   |
| 176        |                |            |       |            |       | 230 |                |      |            |          | 235      |            |        |            |      | 240   |
|            |                | Asp        | Tle   | Asn        | Thr   |     | Asn            | Leu  | Glv        | Phe      | Ser      | Asp        | Leu    | Leu        | Ile  | Arq   |
| 178        |                | 110 P      |       |            | 245   |     |                |      | 2          | 250      |          |            |        |            | 255  |       |
|            | Me+            | Man        | Δra   | Ser        |       | Ser | Δla            | Val  | Phe        |          | Tle      | Asn        | Tle    | Asp        |      | Ser   |
| 180        | TICL           | пор        | my    | 260        | 01    | 001 |                | ,    | 265        | 011      |          |            |        | 270        | •••• |       |
|            | Leu            | Cor        | Larc  | Asp        | ጥህን   | Glv | λen            | ጥህጉ  |            | Tle      | Ser      | Δla        | Δan    |            | Δrσ  | Δla   |
| 182        | пеп            | 261        | 275   | кар        | TYT   | Gry | ASII           | 280  | шец        | 110      | DCI      | AIG        | 285    | Vul        |      | 1114  |
|            | Nan            | 7 an       | 2.0   | Met        | цiс   | Tau | λcn            |      | Glu        | Ψrn      | λen      | T.011      |        | Δla        | λen  | ጥኒኒዮ  |
|            | ASII           | 290        | ьеи   | Met        | птъ   | пеп | 295            | кър  | Gru        | пр       | ASII     | 300        | DCI    | пта        | Heli | + Y + |
| 184        | Dro            |            | 7 I - | Arg        | T 011 | T10 |                | λla  | λ1 -       | Cln      | λen      |            | T.a.11 | G1 v       | Val  | Gln   |
|            |                | Leu        | Ата   | Arg        | пеп   | 310 | ASP            | нта  | нта        | GIII     | 315      | АБР        | пец    | GIY        | Val  | 320   |
|            | 305            | 01±-       | T     | <b>1</b>   | 3     |     | T7 - 7         | 3.00 | M          | TT       |          | Com        | T 011  | mh ~       | T10  |       |
|            | vaı            | GIY        | гаг   | Asp        |       | GIN | vai            | ASII | TYL        |          | Ата      | Ser        | ьeu    | TIII       |      | PIO   |
| 188        | _              |            | -     |            | 325   | D1  | <b>G</b>       |      | m1         | 330      | <b>.</b> | 77.2       | TT -   | C1 m       | 335  | C1 n  |
|            | Tyr            | GLY        | ьeu   | Tyr        | гля   | Pne | ser            | Ата  |            | HIS      | Ser      | HIS        | HIS    |            | TAT  | GIII  |
| 190        |                | _,         | _     | 340        |       |     |                |      | 345        | <b>.</b> | m)       | m          | TT 2 - | 350        | m1   | G     |
|            | GIn            | Pne        |       | Glu        | GIA   | Leu | HIS            |      | Pro        | ьeu      | Thr      | туг        |        | GIY        | THE  | Ser   |
| 192        |                |            | 355   | _          |       | _ • | _              | 360  | _          | _        | _        | '          | 365    | _          | -1   | _     |
|            | Lys            |            | Ser   | Ser        | ·Ile  | GLY |                | Ser  | Arg        | Leu      | Leu      |            | Arg    | Asp        | GLY  | Asn   |
| 194        |                | 370        |       | _          | _     |     | 375            | _    |            | _        |          | 380        | _      | _          | _    |       |
|            |                | Lys        | Thr   | Glu        | Gly   |     | Ile            | Lys  | Val        | Asn      |          | Lys        | Arg    | Ser        | Ser  |       |
|            | 385            |            |       |            |       | 390 |                | _    | _          | _        | 395      |            | _      |            |      | 400   |
|            | Tyr            | Ile        | Asp   | Asp        | Val   | Asn | Leu            | Glu  | Val        | GIn      | Asn      | Arg        | Arg    | Thr        | Thr  | GLĀ   |
| 198        |                |            |       |            | 405   |     |                |      |            | 410      |          |            |        |            | 415  |       |
| 199        | $\mathtt{Tyr}$ | Asn        | Ile   | Gly        | Ile   | Thr | His            | Gln  |            | His      | Leu      | His        | Gln    |            | Gly  | Tyr   |
| 200        |                |            |       | 420        |       |     |                |      | 425        |          |          |            |        | 430        |      |       |
| 201        | Leu            | Tyr        | Ala   | Asn        | Leu   | Asp | $\mathtt{Tyr}$ | Lys  | Gln        | Gly      | Thr      | Gly        |        | Leu        | Lys  | Ala   |
| 202        |                |            | 435   |            |       |     |                | 440  |            |          |          |            | 445    |            |      |       |
| 203        | Lys            | Pro        | Ala   | Pro        | Glu   | Glu | His            | Ile  | Tyr        | Asp      | Ala      | Phe        | Gly    | Arg        | Gln  | Leu   |
| 204        |                | 450        |       |            |       |     | 455            |      |            |          |          | 460        |        |            |      |       |
| 205        | Pro            | Ser        | Glu   | Gly        | Phe   | Ala | Lys            | Ala  | Pro        | Ile      | Trp      | Ser        | Leu    | Tyr        | Thr  | Ser   |
|            | 465            |            |       |            |       | 470 |                |      |            |          | 475      |            |        |            |      | 480   |
| 207        | Phe            | Gln        | Lys   | Pro        | Phe   | Val | Leu            | Asn  | Asn        | Pro      | Asn      | Asp        | Thr    | Glu        | Gln  | Ala   |
|            |                |            |       |            |       |     |                |      |            |          |          |            |        |            |      |       |

RAW SEQUENCE LISTING DATE: 04/04/2002 PATENT APPLICATION: US/10/088,046 TIME: 15:38:35

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\04042002\J088046.raw

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211 Thr Tyr Thr Ala Arg Leu Gln Ala Gln Tyr Ala Lys Gln Leu Pro Val
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                                520
                                                     525
212
213 Pro Ser Asp Leu Phe Tyr Leu Gly Gly Arg Tyr Ser Ile Lys Gly Ile
                            535
214
215 Lys Glu Gly Asn Tyr Leu Ser Gly Glu His Gly Phe Ser Leu Ser Gln
                                             555
                        550
217 Glu Leu Ala Trp Gln Leu Pro Leu Gln Asn Leu Asn Gln His Phe Ser
218
                                         570
                    565
219 Thr Asn Ala Asn Ser Ala Gln Leu Tyr Ala Ser Ile Asp Gln Gly Tyr
                                    585
221 Ala Tyr Gly Lys Asn Thr Leu Asn Asn Gln Arg His Ile Leu Ala Gly
                                                     605
222
            595
                                600
223 Ala Val Gly Met Arg Tyr Tyr Phe Gln Gly Ser Gln Asp Pro Arg Ile
       610
                            615
                                                 620
225 Gln Glu Thr Gln Asn Gly Leu Thr His Phe Lys Glu Ser Asn Thr Tyr
                                            635
                        630
227 Leu Asn Asn Thr Pro Thr Thr Ala His Leu Asp Ile Phe Ile Gly Lys
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229 Gly Ile Lys Thr Pro Glu Phe Met Lys Lys Glu Thr Val Val Gly Val
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231 Ser Ala Ser Ile Glu Phe
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232
234 <210> SEQ ID NO: 5
235 <211> LENGTH: 1410
236 <212> TYPE: DNA
237 <213> ORGANISM: Moraxella catarrhalis
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242 catgccttgt atcaagctga tgtcttacaa gcagaatcat tacaaaaatt acactatcct
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243 aggatatege teaatgeaca egeetttgta etgeaacaaa acageageat accettagat
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244 catatcaaag agcagaccgc ccagcacatt aacacccatt ttgaccatcg ctttggcagt
245 gcccccgatg gtctgttgga tgctttgcac aacagcaccc aaaccgccct tgaccgcctg
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246 cctgaccatc aagatgtcaa gttacgccat gatggcatta ccccaaacat taccgccacg
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247 atacccatct atacaggtgg cttaatcagc agcaccaaaa atatcgccaa tctacaagca
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248 cagcgtggta aatttggatt acaagaacgc atctctttgg caaaacttaa tttgattcgc
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249 cattatttta atgtgcaatt acaaaagcag ctgaccgaca cacaacaaaa catgcttagt
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250 gccatgcagt tacatgtaga taatgcttat aaattagaac agcaaggttt tatcagtcgt
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251 ggacagcgta tgcaatttga agtggcacgc aatcaggtac aaagactgta tcaaagcacc
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252 caaaatcagc accaaaacag catttatgaa cttgctgttt tgcttggttt gccccacatt
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253 gaaccgctaa gcacaccgct gtttatcaac acccagcatc gccccaattg gcaagcatta
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254 ctcaaagact cccaaaatac accattaaat caaaagctaa aaaccgacat tttgcttgcc
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255 gatgaaaata tcgccctaag acaatccacc aaaaaaccaa aaattgccgc tgtggctcgt
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256 tataccttag atgataagcc tgattggttt gcaggtgtgg cggtttctta caacctattc
257 ttgggcattg accgtgataa gcagattggg gcagcacacc tacaaaaaca agcagcccaa
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VERIFICATION SUMMARY

DATE: 04/04/2002

PATENT APPLICATION: US/10/088,046

TIME: 15:38:36

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\04042002\J088046.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date